BLOGS

Sectional Test on Quantitative Techniques for CLAT UG [Part 7]

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1. The average marks of 9 students in a test is 74. If one student's marks were wrongly recorded as 86 instead of 56, what is the correct average?

a. 70

b. 71

c. 72

d. 73

2. An article is sold for ₹1,800 at a profit of 20%. What is its cost price?

a. ₹1,400

b. ₹1,500

c. ₹1,600

d. ₹1,650

3. A basket contains apples and oranges in a 3:5 ratio. Given that there are 40 oranges, what is the number of apples?

a. 18

b. 24

c. 30

d. 32

4. A car travels at a speed of 54 km/h. What is its speed in m/s?

a. 15 m/s

b. 12 m/s

c. 18 m/s

d. 13.5 m/s

5. The perimeter of a square is 96 cm. What is its area?

a. 484 sq cm

b. 576 sq cm

c. 600 sq cm

d. 625 sq cm

6. A group of six individuals has an average age of 30. A seventh person joins the group, causing the average age to increase to 32. Determine the age of the newest person in the group.

a. 40 years

b. 42 years

c. 43 years

d. 44 years

7. What is the cumulative percentage increase in a town's population after two years, given an initial 10% increase in the first year, followed by a 20% increase in the second year?

a. 30%

b. 32%

c. 33%

d. 34%

8. A single ball is randomly chosen from a container holding 4 red, 6 green, and 10 blue balls. Determine the probability of the selected ball being green.

a. 3/10

b. ⅕

c. ⅔

d. ⅘

9. A set of 12 numbers has an average of 45. When one number is taken out, the remaining 11 numbers average 43. Determine the value of the removed number.

a. 59

b. 65

c. 69

d. 71

10. A man saves 25% of his monthly income. If his savings are ₹7,500, what is his monthly income?

a. ₹25,000

b. ₹27,500

c. ₹30,000

d. ₹35,000

11. The completion time for a specific task is 15 days when performed by 8 workers. Determine the number of days required for 12 workers to finish the identical job.

a. 8 days

b. 9 days

c. 10 days

d. 12 days

12. Two numbers are in the ratio 4 : 9. If their sum is 260, what is the smaller number?

a. 80

b. 90

c. 100

d. 110

13. The cost price of an article is ₹500. It is sold at a profit of 15%. What is the selling price?

a. ₹560

b. ₹565

c. ₹575

d. ₹580

14. A train covers 300 km in 5 hours. How much distance will it cover in 8 hours at the same speed?

a. 420 km

b. 450 km

c. 480 km

d. 500 km

15. A person spent an average of ₹600 per day over 5 days. If the expenditure for one of those days was ₹800, calculate the average daily expenditure for the other 4 days.

a. ₹525

b. ₹550

c. ₹575

d. ₹600

Answers

1. Correct Answer: C

Wrong total = 9 × 74 = 666

Extra added = 86 – 56 = 30

Correct total = 666 – 30 = 636

Average = 636/9 = **72**

2. Correct Answer: B

SP = 120% of CP

CP = 1800/120 × 100 = **₹1500**

3. Correct Answer: B

5 parts = 40

1 part = 8

Apples = 3 × 8 = **24**

4. Correct Answer: A

54 × 5/18 = **15 m/s**

5. Correct Answer: B

Side = 96 ÷ 4 = 24

Area = 24 × 24 = **576 sq cm**

6. Correct Answer: D

Old total = 6 × 30 = 180

New total = 7 × 32 = 224

Age = 224 − 180 = **44 years**

7. Correct Answer: B

Net % = 10 + 20 + (10×20)/100 = 30 + 2 = **32%**

8. Correct Answer: A

Total balls = 20

Green = 6

Probability = 6/20 = **3/10**

9. Correct Answer: C

Original total = 12 × 45 = 540

New total = 11 × 43 = 473

Removed number = 540 − 473 = **69**

10. Correct Answer: C

25% = 7,500

Income = 7,500 × 4 = **₹30,000**

11. Correct Answer: C

8 × 15 = 12 × x

x = **10 days**

12. Correct Answer: A

Total parts = 13

1 part = 260/13 = 20

Smaller = 4 × 20 = **80**

13. Correct Answer: C

SP = 115% of 500 = **₹575**

14. Correct Answer: C

Speed = 300/5 = 60 km/h

Distance in 8 hrs = 60 × 8 = **480 km**

15. Correct Answer: B

Total = 5 × 600 = 3000

Remaining = 3000 − 800 = 2200

Average = 2200/4 = **₹550**